CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.03/JTG/CSR.01.730d/CEMENT/2014-15

Date: 13.01.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. Jayanth. T. Gowda, No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
*NAME OF THE WORK	:	Improvements of Drains and Construction of Culverts Vidyanikethan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNSD/36/2014-15 Dated: 09.01.2015
SAMPLE ID	:	Cement – (Sample – 2)
SAMPLE RECEIVED ON	:	09.01.2015
PERIOD OF TESTING	:	09.01.2015 to 13.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.

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Job No.: CTCE/BBMP/W.No.03/JTG/CSR.01.730d/SAND-Gradation/2014-15 : 13.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Jayanth. T. Gowda,** No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
* Name of Work	: Improvements of Drains and Construction of Culverts Vidyaniketan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/36/2014-15 Dated: 09.01.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates – (Sample – 2)
Sample Received on	: 09.01.2015
Date of Testing	: 13.01.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.74	90-100	90-100	90-100	95-100
2.36	85.16	60-95	75-100	85-100	95-100
1.18	59.87	30-70	55-90	75-100	90-100
600 Micron	42.41	15-34	35-59	60-79	80-100
300 Micron	27.18	5-20	8-30	12-40	15-50
150 Micron	5.01	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.03/JTG/CSR.01.730d/AGG/GR/2014-15 : 13.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Jayanth. T. Gowda,** No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
* Name of Work	: Improvements of Drains and Construction of Culverts Vidyanikethan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/36/2014-15 Dated: 09.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) – (Sample – 2)
Sample Received on	: 09.01.2015
Date of Testing	: 13.01.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.48	95-100	85-100
20	68.00	30-70	0-20
10	32.33	10-35	0-5
4.75	3.90	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.03/JTG/CSR.01.730d/CC Solid Block/2014-15 : 16.01.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Domlur Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Jayanth. T. Gowda,** No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
* Name of the Work	: Improvements of Drains and Construction of Culverts Vidyaniketan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/36/2014-15 Dated: 09.01.2015
Sample Received on	: 09.01.2015
* Date of Testing	: 16.01.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.85	263.5	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	26.27	265.8	3.32	
3	Block 3	24.85	260.3	3.25	
4	Block 4	26.32	259.4	3.24	
5	Block 5	25.74	261.8	3.27	
6	Block 6	26.45	263.2	3.29	
7	Block 7	25.98	264.5	3.31	
8	Block 8	26.25	262.7	3.28	

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Job No : CTCE/BBMP/W No 03/JTG/WBM-II/2014-15

Date: 04.02.2015

REPORT

Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Jayanth. T. Gowda,** No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
Name of the Work	:	Improvements of Drains and Construction of Culverts Vidyaniketan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/36/2014-15 Dated: 09.01.2015
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	02.02.2015
Date of Testing	:	04.02.2015

I) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	96.55	90-100
53mm	31.70	25-75
45mm	9.35	0-15
22.4mm	2.40	0-5

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Job No.: CTCE/BBMP/W.No.03/JTG/WBM-III/2014-15 Date: 09.02.2015

REPORT

Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Name of the Work	:	**Mr. Jayanth. T. Gowda,** No.: 152, 2nd Floor, 3rd Main, Basaveshwara Nagara, Bangalore.
Reference	:	Improvements of Drains and Construction of Culverts Vidyanikethan School Road, Attur Layout in Attur in Ward No. 03, BBMP, Bangalore.
Type of Mix	:	Water Bound Macadam (Grade-III Metal)
Date of Sampling	:	07.02.2015
Date of Testing	:	09.02.2015

1) SEIVE ANALYSIS:

IS Sieve design ation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
63mm	100.00	100.00
53mm	98.75	95-100
45mm	69.45	65-90
22.4mm	5.60	0-10
11.2mm	2.50	0-5

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B.N Pandey
(AE)

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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